Amirhossein Deljouyi

Department of Computer Engineering, Sharif University of Technology, Tehran, Iran
Email: amirdeljouyi@gmail.com, deljouyi@ce.sharif.edu
Cell Phone: +989217131026
Homepage: ce.sharif.edu/ deljouyi , amirdeljouyi.github.io

Research Interests

- Empirical Software Engineering
- Software Architecture
- Machine Learning
- Automatic Code Generation
- Domain-Driven Design
- Model-Driven Engineering

Education

- **Sharif University of Technology**, Tehran, Iran
  M.Sc in Software Engineering September 2018 - March 2021
  Cumulative GPA: 18.05/20 (**4**/4)
  Thesis: Model-Driven Methodology for Developing RESTful Web Services
  Advisor: R. Ramsin
  Thesis Grade: **20**/20 (Excellent)
  Passed Courses: Software Development Methodologies(19/20), Software Testing(18.8/20) Patterns in Software Engineering (18), Software Architecture (18/20), Decision Support System (17.5), Semantic Web (17.3/20), Requirements Engineering (17)
- **University of Guilan**, Guilan, Iran
  B.Sc in Computer Engineering September 2014 - August 2018
  Cumulative GPA: 17.93/20 (3.67/4)
  last 4 semester's GPA: 18.41/20 (3.78/4)
  Software Engineering Related Coursework [1] GPA: 19.43/20 (**4**/4)
  Thesis: Evolutionary Algorithms Applied to The Graph Coloring Problem
  Advisor: S.A. Mirroshandel
  Available Implementaion: Graph-Coloring

Honors and Awards

- **Ranked 1st** in **Cumulative GPA** among all students in Computer Engineering (among both of Software Engineering students and Hardware Engineering students) University of Guilan, 2018.
- **Ranked 29th** in **23rd National Olympiad** in Computer Engineering, Tehran, Iran, 2018.
- **Ranked 1st** in **23rd National Olympiad Regional** in North Region of Iran (Region 2) in Computer Engineering, Iran, 2018.
- Achieved **53rd** place among all applicants for the **M.Sc. University Entrance Nationwide Exam** in Software Engineering, Iran, 2018.
- **Participant** in the West Asia Regional ACM-ICPC Programming Contest, Tehran, Iran, 2015 and 2016.

[1] System Analysis and Design (20/20), Software Engineering (19/20), Internet Engineering (20/20), Data mining (18.5/20), Fundamental of Programming (19.7/20), Advanced Computer Programming (20/20), Data Structure and Algorithms (18.5/20), Design of Algorithms (19.5/20),Theory of Languages and Automata(19.8/20), Design of Programming Languages (19.61/20), Computer Vision (19.5/20), Artificial Intelligence(20/20), Computational Intelligence (20/20), Principles of Compiler Design (18.8/20), Computer Network(20/20), Natural Language Processing (17.8/20)

- **Chief of Staff** at the 1st University of Guilan ICPC Programming Contest, 2016.
- **Ranked 4th** in Sharif AI Challenge Competition, Tehran, Iran, 2016.
- Achieved 3% place among all participants for the **University Entrance Nationwide Exam** (Approximately 260000 applicants) in Mathematics & Physics, 2014.

Teaching Experiences

- Object-Oriented Systems Design, R. Ramsin — Spring 2021, Spring 2020
- Agile Software Development, R. Ramsin — Fall 2020, Fall 2019
- Principles of Compiler Design , G. Jaberipur — Fall 2019
- Software Engineering, M. Habibi — Spring 2019
- Data Structure, S.A. Mirroshandel — Fall 2017
- Advanced Computer Programming, S.A. Mirroshandel — Spring 2017

Work Experiences

- Senior Full Stack Engineer — Spring 2021
  TubeIn Technologies LLC, Georgia, USA (Remote)
- Front-End Engineer — Spring 2020
  Dideo, Sharif University of Technology, Tehran, Iran

Projects

- Model-Driven Methodology for Developing RESTful Web Services
  Spring 2019 - 2021
  Under the supervision of Dr. Ramsin, Sharif University of Technology
  Thesis Description
  github.com/amirdeljouyi/Fraud-Detection-Divar
  MDD | RESTful APIs | DDD | Eclipse Epsilon | Annotation | Java | Python
- Fraud Detection on Divar — Spring 2019
  Under the supervision of Dr. Habibi, Sharif University of Technology
  github.com/amirdeljouyi/Fraud-Detection-Divar
  Machine Learning | Clustering | Classification | Python
- Graph Grounding for Graph Coloring — Spring 2018
  Under the supervision of Dr. Mirroshandel, University of Guilan
  github.com/amirdeljouyi/graph-coloring
  Genetic Alogrithm | Playground | Typescript
- Genetic Algorithm on K-Means Clustering — Fall 2017
  Under the supervision of Dr. Shakeri, University of Guilan Technology
  github.com/amirdeljouyi/Genetic-Algorithm-on-K-Means-Clustering
  K-Means | Clustering | Genetic Algorithm | Python

TECHNOLOGY SKILLS

- Software Engineering Skills:
  - Development Strategies and Methodologies, Build Processes: Eclipse Process Framework Project (EPF)
  - Continuous Integration: Jenkins, Gitlab CI
  - Deployment: Kubernetes, Docker
  - Version Control: Git
  - Model-Driven Tools: EMF, Eclipse Epsilon
  - Data Modeling and Mapping; and design using UML, Rational Rose, and Visio.
- Programming Languages: Java, Python, JavaScript, Typescript, C/C++
- Web Development:
  - Backend: Django, Flask, Spring, JHipster, NestJS
  - Frontend Development: HTML, CSS, SCSS, Angular, ReactJS
  - Semantic Web: XML, XSLT, RDF, OWL, Sparql, SQWRL
- Database Management Systems: Postgresql, MySQL, MongoDB
- Datamining and Visualization: WEKA, Scikit-Learn, Pandas, Matplotlib, Numpy, Plotly, Dash
- Typesettings: LaTeX, Vim

LANGUAGE SKILLS

- Persian (Farsi) : Mother Tongue (Native)
- English: Professional Working Proficiency

REFERENCES

- **Raman Ramsin**, Assistant Professor
  Department of Computer Engineering, Sharif University of Technology
  Email: ramsin@sharif.edu

- **Seyed Abolghasem Mirroshandel**, Associate Professor
  Department of Computer Engineering, University of Guilan
  Email: mirroshandel@gmail.com

- **Abbas Heydarnoori**, Assistant Professor
  Department of Computer Engineering, Sharif University of Technology
  Email: heydarnoori@sharif.edu

- **Jafar Habibi**, Associate Professor
  Department of Computer Engineering, Sharif University of Technology
  Email: jhabibi@sharif.edu

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